Southern California Water Committee Stormwater Capture Opportunities Paper

Richard Atwater, Executive Director Southern California Water Committee November 1, 2012



Introduction to SCWC

- Established in 1984
- Non-profit, non-partisan organization dedicated to education & outreach on water issues
- Regional leader on water policy
- Spans Los Angeles, Orange, San Diego,
 San Bernardino, Imperial, Riverside, Ventura &
 Kern Counties
- Regional base; statewide influence









Diverse & Influential Members

- 200 members:
 - Business
 - Local government
 - Water agencies
 - Agriculture
 - Environmental
 - Labor
 - General public
- Unique water policy group representing such diverse interests











Stormwater Task Force

- Background on SCWC Stormwater Task Force
- Summary of Issue Paper
- Workshop on June 28 at MWD
- Development of Data Base on Stormwater Projects in So. Calif.



Background

- Focus- So. Cal MS4 Permits and opportunities to conserve stormwater
- Purpose- Evaluate for stormwater capture/recharge or water supply opportunities
- Relevant state policies

State Board's Strategic Plan Update 2008-2012

State Board's 2009 Recycled Water Policy

Delta Stewardship Plan

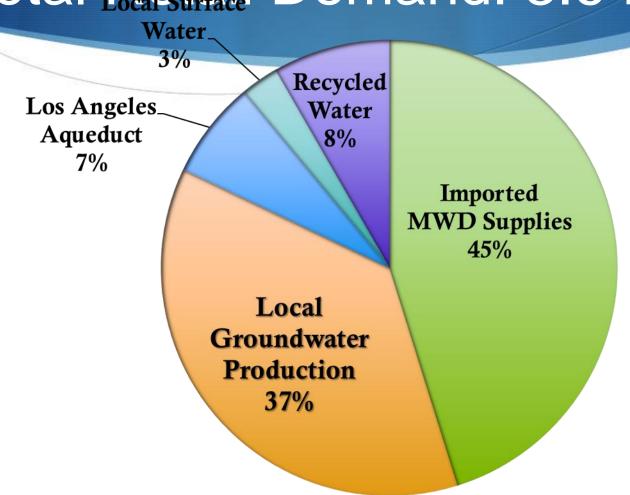


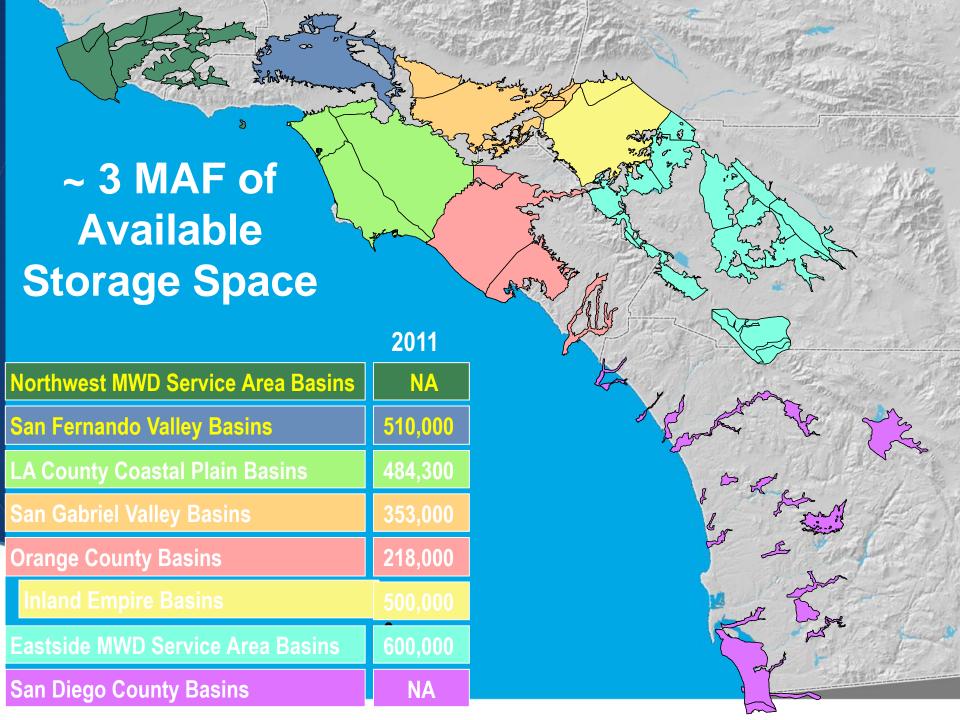
Stormwater

Paper permits offer opportunity for integrated watershed management approach.

- Recognize need to protect groundwater & water supply.
- Need to encourage watershed specific solutions based on existing infrastructure and local geology to recharge groundwater

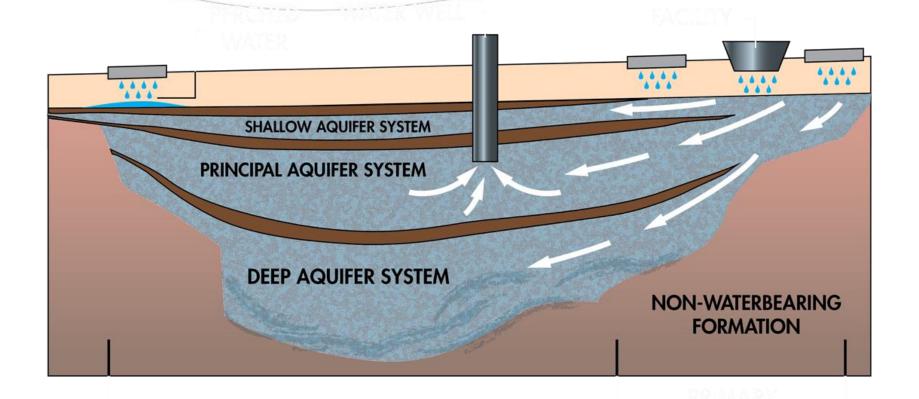
Supplies Total Retail Demand: 3.6 MAF



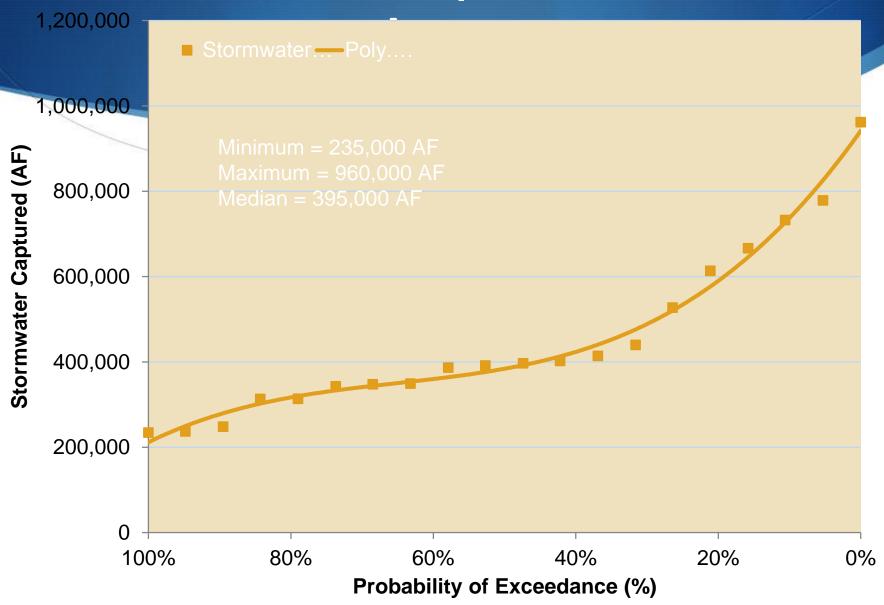


Deep Percolation of Stormwater

source: SCWC Stormwater White Paper



Stormwater Capture in MWD



SCWC Stormwater Workshop

Workshop on June 28

110 participants from throughout the region plus experts from federal agencies and State

Technical papers on regional and LID stormwater capture project data

Economic and Financing Issues addressed

Summary of IRP Options

	Benefits					
Option Category	Drought Proof	Climate Change	Basin WQ	20x2020 Goal	Flexible	TMDL Benefits
Groundwater Recharge of Recycled Water					0	0
Non-Potable Recycled Water	0		0		0	0
Centralized Stormwater		•		0		
Decentralized Stormwater	0		0	0	0	
Water Transfers/GW Storage	0	•	0	0		0
MWD Imported Water	0	0	0	0		0
New Water Conservation			0		0	0



Strong benefit



Moderate benefit

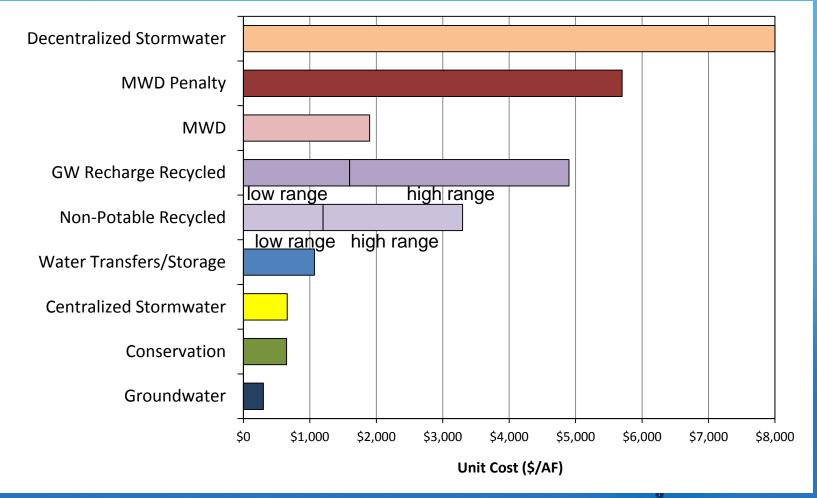


- Little to no benefit





Projected Unit Cost of IRP Options





Large Scale Projects

Pacoima Spreading Grounds Project

- LACFCD/LADWP Project.
- Estimated cost \$32 million.
- Increased recharge by 2,000 acrefeet annually.
- Designs expected in late 2012.





Lopez Spreading Grounds Project

- LACFCD/LADWP Project.
- Increased recharge by 750 acre-feet annually.
- Designs expected in 2013.
- Estimated cost \$8 million.



Small Scale Projects



Whitnall Highway Power Line Easement Project

- LADWP Project.
- Conceptual plan being developed.
- Project expected to increase groundwater recharge by more than 110 acre-feet per year.
- Goal is to capture and infiltrate stormwater beneath LADWP power lines using swales and ponds.
- Designs expected in 2013.



Inventory of Stormwater Projects in So. Calif.

- Collaborating with agencies and key stakeholders throughout the region
- Developing a database on LID and regional stormwater projects (built or planned) throughout the region
- Using IRWMPs and other planning studies to develop regional assessment of potential stormwater capture
- Complete by December 2012 (web page: www.socalwater.org)



Conclusions & Recommendation

- Need for ongoing technical dialogue on regional and LID coordinated stormwater MS4 and supply strategies
- Take advantage of Army Corps of Engineers dams and other facilities
- ❖Continue the ongoing collaborative dialogue with Regional Boards, SWRCB and EPA on strategies to conserve and capture stormwater